

## **EGGER ERGO BOARD**

### **DESIGN & INSTALLATION GUIDE**



TABLE OF CONTENTS	PAGE
<b>1. PURPOSE OF DOCUMENT</b> .....	<b>2</b>
1.1 General .....	2
1.2 Supporting information .....	2
1.3 EGGER Ergo Board .....	2
<b>2. SCOPE OF USE AND LIMITATIONS</b> .....	<b>2</b>
2.1 Where can EGGER Ergo Board be used? .....	2
2.2 Limitations when using EGGER Ergo Board.....	3
<b>3. DESIGNER INFORMATION</b> .....	<b>3</b>
3.1 Skill level .....	3
3.2 Design considerations .....	3
<b>4. INSTALLATION INFORMATION</b> .....	<b>3</b>
4.1 Skill level .....	3
4.2 Health and safety .....	3
4.3 Handling and storage .....	3
4.4 Tools.....	3
4.5 Ancillary products.....	3
4.6 Installing panels.....	4
4.6.1 Substrate preparation .....	4
4.6.2 Laying the panels .....	4
4.6.3 Installation .....	4
4.6.4 Wall bracing.....	5
4.6.5 Fixings.....	5
4.6.6 Finishing.....	5

## 1. PURPOSE OF DOCUMENT

### 1.1 GENERAL

This document is intended for designers and installers to ensure EGGER Ergo Board is specified and installed correctly.

### 1.2 SUPPORTING INFORMATION

This document must be read in conjunction with:

- IBS **pass**<sup>TM</sup> (Product Assurance Supplier Statement) for EGGER Ergo Board
- IBS Product Specification for EGGER Ergo Board
- IBS Maintenance and Warranty for EGGER Ergo Board

### 1.3 EGGER Ergo Board

**EGGER Ergo Board** is an OSB/3 panel manufactured by EGGER in accordance with EN13986:2004. OSB/3 is defined as suitable for use as a load-bearing panel in humid conditions.

IBS supplies the EGGER Ergo Board for use:

- As a wall, ceiling and attic lining
- In drywall construction
- As partitioning
- In conjunction with a fire-rated plasterboard partition wall system

#### Panel size:

- 2400 mm x 600 mm x 12 mm

## 2. SCOPE OF USE AND LIMITATIONS

### 2.1 WHERE CAN EGGER ERGO BOARD BE USED?

**EGGER Ergo Board** is suitable for internal use only:

- A ceiling and attic lining and sarking
- A wall lining that provides a bracing value
- In all steel and wood framed buildings
- In new buildings that comply with the NZ Building Code
- In existing buildings where the designer and installer have satisfied themselves that the existing building is suitable for the intended building work
- As a pre-lining in kitchen areas to assist in easy fixing of cabinets



**It may also be used:**

- In drywall construction and is suitable for use in partitioning
- In conjunction with a fire rated plasterboard partition wall system
- As a substrate to be overlaid with any self-supporting product

**EGGER Ergo Board** may be installed vertically or horizontally.

**2.2 LIMITATIONS WHEN USING EGGER ERGO BOARD**

- Prior to installation of the EGGER Ergo Board, the timber framing moisture content should be no greater than 18%MC
- Where EGGER Ergo Board is used in wet areas or areas likely to be splashed, a waterproof membrane system or impervious coating must be applied
- Horizontal applications that exceed 5 meters in height must be supported with studs on the vertical panel joint
- **EGGER Ergo Board** is not suitable for external use or in locations exposed to high humidity and/or moisture
- Where overlaying EGGER Ergo Board over in-situ concrete or concrete masonry, battens on DPC must be used
- For horizontal applications, it is recommended that the panel should be staggered (brick pattern)
- **EGGER Ergo Board** should not be left in its raw state and must be finished with a protective coating

**3. DESIGNER INFORMATION**

**3.1 SKILL LEVEL**

The designer will need to have knowledge of the product and access to all EGGER Ergo Board technical information (refer [www.ibs.co.nz](http://www.ibs.co.nz)).

**3.2 DESIGN CONSIDERATIONS**

The designer should consider the following in their design when specifying EGGER Ergo Board :

1. Use of the building
2. Use the space in respect to fire, water splash, moisture and/or acoustics
3. The supporting structure
4. Specified scope and limitations

**4. INSTALLATION INFORMATION**

**4.1 SKILL LEVEL**

The installer will need to have knowledge of basic carpentry skills, knowledge of the product and access to all EGGER Ergo Board technical information (refer [www.ibs.co.nz](http://www.ibs.co.nz)).

**4.2 HEALTH AND SAFETY**

When installing EGGER Ergo Board take all steps to ensure your safety and the safety of others.

- Use safety glasses, ear protection, and wear appropriate clothing and footwear
- Use all tools in accordance with the relevant instruction manuals

- Ensure drilling and cutting is carried out in a well-lit, well ventilated room
- Provide for dust extraction if working in an enclosed space

**For further information refer to:**

- [The Absolutely Essential Health and Safety Toolkit](#)
- [Worksafe New Zealand Quick Guide](#)

**4.3 HANDLING AND STORAGE**

When the panels arrive:

- Remove the fixing strips to reduce the stress on the panels and store them flat
- Limit the time the panels are stored outside, however, where stored outside:
  - Keep away from water or vegetation.
  - Raise off the ground.
  - Cover the panels with weatherproof coverings, but still allow ventilation.

**IMPORTANT NOTE:**

Before installing, store the panels inside for 48 hours to acclimatise to the installation site moisture level.

**4.4. TOOLS**

When installing EGGER Ergo Board the following tools and fixings are required by not limited to:

- Hard tipped handsaw
- Skill saw with tungsten tipped blade
- Electric drill with holes saw and high speed drills
- Nail guns optional

**4.5 ANCILLARY PRODUCTS**

**Nails must:**

- be a minimum length of 50 mm x 2.55 for bracing or
- be 3.0 mm minimum diameter- spiral, ring or grooved nails.

**Staples must:**

- be a minimum gauge of 1.53 mm, length 50 mm and width 11 mm.
- be directed at a minimum 30° angle against the panel surface.
- be placed at minimum 30 mm spacing.

**NOTE:**

Mild steel or light zinc coated fixings can be used, however this is not recommended where the panel is exposed to the elements or where a visual finish is required. In these instances stainless steel fixings are recommended.

### Screws must:

- have a minimum length of 40 mm.
- be self-tapping wood-screws with countersunk head.
- have a minimum diameter of 4.2 mm

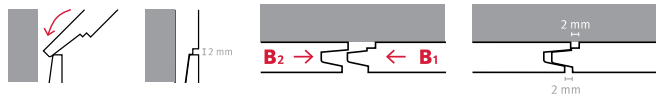
### 4.6 INSTALLING THE PANELS

#### 4.6.1. SUBSTRATE PREPARATION

- Ensure that all framing is clean and dry.
- Ensure the board has been acclimatised inside for 48 hours.
- Ensure that the framing has an EMC no greater than 18%.

#### 4.6.2. LAYING THE PANELS

- In all cases the shiplap profile allows for a 2 mm expansion joint. This provides additional stiffness for cc-spans up to 600 – 625 mm.



#### 4.6.3 INSTALLATION

1. Fasten at the perimeter outer studs at 150 mm fixing spacing
2. Where a cc-span is at 450 mm, fixing at no greater than 300mm is sufficient.
3. Screws should have a distance to the edge of 10 mm minimum
4. Stud spacing's of 450 mm – 600 mm centres for horizontal installation or 600 mm centres for vertical installation
5. The pre-marked nailing grid pattern is marked for a cc-span of 600 mm

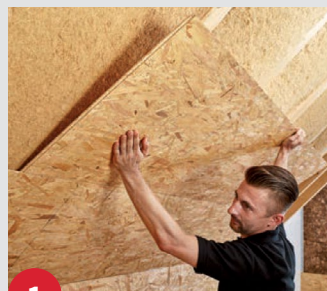
#### HORIZONTAL INSTALLATION

For walls, taller than 5 m and higher the vertical joints should be supported by the studs.

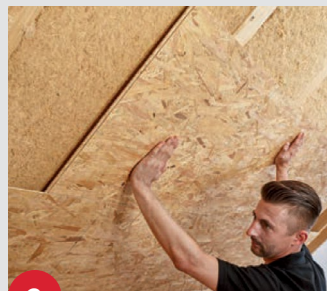
#### VERTICAL INSTALLATION

For vertical applications, EGGER Ergo Board does not need to be joined over a stud. Where a vertical stud is available fastenings at 150 mm centres are required.

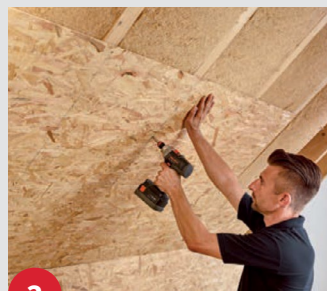
#### HORIZONTAL INSTALLATION



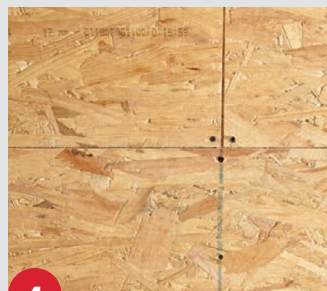
- 1 Starting at the bottom of the wall, fold in the shiplap joint with the board below on the long edge. To have the profiled edges in the correct position the marking on the surface of the panel should be legible from bottom/left to top/right.



- 2 Use the nailing grid to adjust to the correct position.

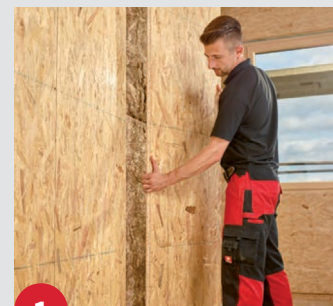


- 3 Fasten the edge of the EGGER Ergo Board while it self holds in position due to the shiplap and tongue and groove profile edges.

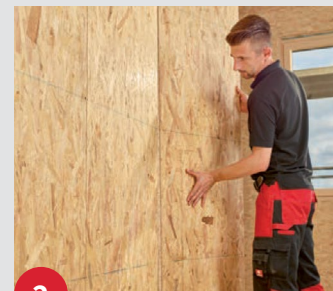


- 4 Install the EGGER Ergo Board with staggered T-joints.

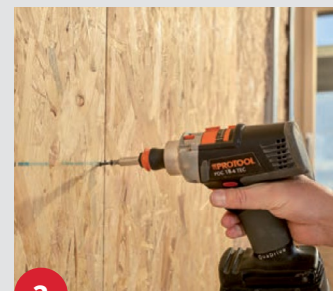
#### VERTICAL INSTALLATION



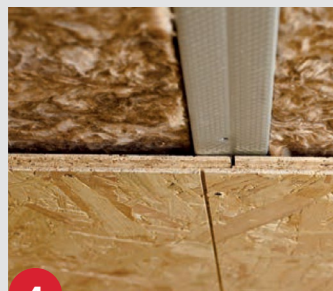
- 1 Place the EGGER Ergo Board in a vertical direction.



- 2 Connect the shiplap joint and the second panel will be held in position.



- 3 Fasten the EGGER Ergo Board in with 150 mm spacing.

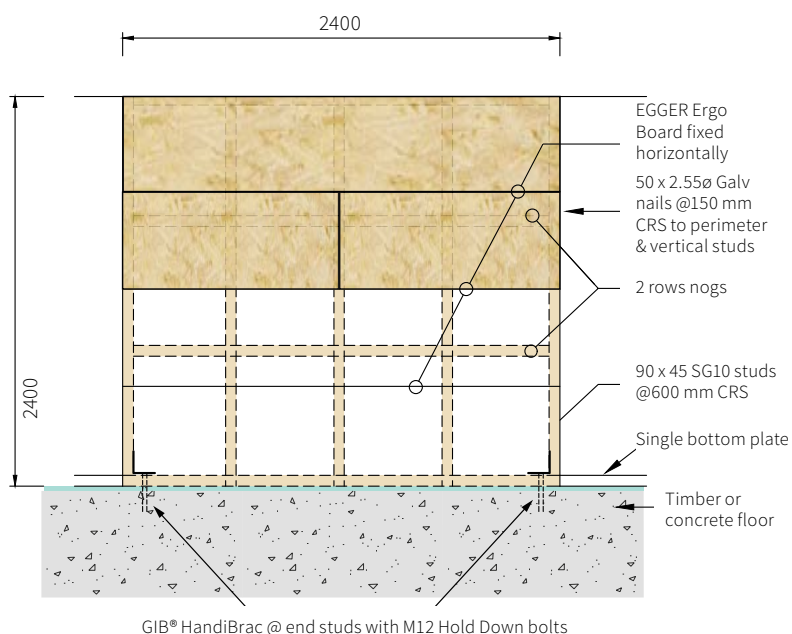


- 4 Fix the adjacent panels with one screw into the stud.

#### 4.6.4 WALL BRACING

**EGGER Ergo Board** can be installed as a wall bracing element with the following:

- Top and bottom plates - 90 x 45, SG10
- Studs - 90 x 45, SG10 @ max 600 mm centres
- Bottom plate - use GIB®HandiBrac brackets with M12 hold-down bolts
- Fixings - 50 x 2.55ø galvanised jolt head nails @ 150 mm centres
- 2 rows of horizontal nogs



**EGGER ERGO BOARD BRACING TABLE: 2400 x 2400**

BU Wind	48 (20BU/m) ULC
BU Earthquake	65 (27 BU/m) ULC

#### 4.6.5 FIXINGS

The following is recommended:

	Maximum fastener spacing		Maximum fastener spacing from board's edge	
	Centers at edges (on board's perimeter)	Centers at the intermediate supports	Centers at the intermediate supports	Centers at the intermediate supports
Nails/screws	150 mm	300 mm	10 mm	25 mm
Staples	75 mm	150 mm	20 mm	25 mm

#### 4.6.6 FINISHING

**EGGER Ergo Board** is required to be sealed or overlaid with an appropriate protective covering such as paint or a membrane system compatible with a composite timber.

The panels may be coated with polyurethane to highlight the timber finish. Alternatively a stain colour may be added to the polyurethane.

Where the panels are used in areas prone to water splash, a waterproof membrane or impervious covering must be used.

#### CERTIFICATION HELD BY EGGER

- DIN EN 13986:2004 issued by Fraunhofer
- ISO9001:2008 issued by **qualityaustria**

#### USEFUL LINKS

For compliance information of EGGER Ergo Board refer to:

- **IBS pass™**  
(Product Assurance Supplier Statement)

Information to help with the design and specification of EGGER Ergo Board refer to:

- **IBS Product Specification**
- **IBS Design & Installation Guide**

For the DIYer refer to:

- **IBS Home Builder Info Sheet**

Information to help with the maintenance of EGGER Ergo Board refer to:

- **IBS Maintenance**

Our warranty for IBS supplied EGGER Ergo Board refer to:

- **IBS Warranty**



#### ABOUT IBS

**Independent Building Supplies (IBS)** has been distributing panel products around New Zealand since 1993. Our focus is on sourcing the best panel products available from around the world from sustainable renewable resources. IBS products are supported by full technical literature and support providing our customers with the **Best Products**, the **Best Service**, and the **Best Experience**.



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